Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	707/101.ccls. and proximity same abs and @ad<"20001024" and @rlad<"20001024" and function	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:24
L2	0	707/10.ccls. and proximity same abs and @ad<"20001024" and @rlad<"20001024" and function	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:25
L3	5 16	(compil\$4 same (data adj set)) and 707/101.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:25
L4	0 17 N	(compil\$4 same (data adj set)) and 707/10.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:25
L5 、	50/	(compil\$4 same (data adj set)) and 707/5.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:25
L6	<u></u>	"20020062318"	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L7	19262	(library or collection or set) same (data or name or item) same master	US-PGPUB; USPAT; .JPO	OR	OFF	2006/04/24 20:26
L8	831	((library or collection or set) same (data or name or item) same master) and 707/1-200.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L9	1269	(sub\$1library or sub\$1collection or sub\$1set or sub\$1group) same (data or name or item) same master	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L10	144	((sub\$1library or sub\$1collection or sub\$1set or sub\$1group) same (data or name or item) same master) and 707/1-200.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L11	597	consolidat\$3 same (redundan\$3 or replicat\$4 or duplicat\$4) same data	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L12	144	consolidat\$3 same (redundan\$3 or replicat\$4 or duplicat\$4) same data same (set or collection or group or library)	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L13	2657018	consolidat\$3 same (redundan\$3 or replicat\$4 or duplicat\$4 or overlap\$4) same data same (set or collection or group or library) same master s	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26

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L14	2	consolidat\$3 same (redundan\$3 or replicat\$4 or duplicat\$4 or overlap\$4) same data same (set or collection or group or library) same master	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L15	166	consolidat\$3 same (redundan\$3 or replicat\$4 or duplicat\$4 or overlap\$4) same data same (set or collection or group or library)	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L16	49	(consolidat\$3 same (redundan\$3 or replicat\$4 or duplicat\$4 or overlap\$4) same data same (set or collection or group or library)) and 707/1-206.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L17	1	(library same sub\$1library same master) and 707/1-206.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L18	9	(library same sub\$1library ) and 707/1-206.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L19	11	(consolidat\$3 same (redundan\$3 or replicat\$4 or duplicat\$4 or overlap\$4) same data same (set or collection or group or library)) and DNA	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L20	20	(consolidat\$3 same (redundan\$3 or replicat\$4 or duplicat\$4) same data) and DNA	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L21	25	707/1-206.ccls. and (sample same without same sequence)	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L22	4	"2002/0152204" or "2003/0037077" or "2002/0059204" or "2001/0032204" or "2002/0194229" or "2003/0084041" or "641084".pn.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L23	7	"20020152204" or "20030037077" or "20020059204" or "20010032204" or "20020194229" or "20030084041" or "6401084".pn.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L24	. 4	((sub\$1library or sub\$1collection or sub\$1set or sub\$1group) same (data or name or item) same master) and 707/2.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L25	26	((sub\$1library or sub\$1collection or sub\$1set or sub\$1group) same (data or name or item) same master) and 707/3.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26

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L26	3	((sub\$1library or sub\$1collection or sub\$1set or sub\$1group) same (data or name or item) same master) and 707/5.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L27	0	((sub\$1library or sub\$1collection or sub\$1set or sub\$1group) same (data or name or item) same master) and 707/533.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L28	29	((sub\$1library or sub\$1collection or sub\$1set or sub\$1group) same (data or name or item) same master) and 707/10.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L29	639	(library or collection or set or group) same (data or name or item) same master same (sub\$1library or sub\$1collection or sub\$1set or sub\$1group)	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L30		((library or collection or set or group) same (data or name or item) same master same (sub\$1library or sub\$1collection or sub\$1set or sub\$1group)) and 707/5.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L31	17	((library or collection or set or group) same (data or name or item) same master same (sub\$1library or sub\$1collection or sub\$1set or sub\$1group)) and 707/1.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L32	783	pattern same match\$3 same (string or text) same compar\$5	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L33	147	(pattern same match\$3 same (string or text) same compar\$5) and 707/1-206.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L34	1322	(search or query) same document same string	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L35	674	((search or query) same document same string) and 707/1-200.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L36	96	(((search or query) same document same string) and 707/1-200.ccls.) and libraries	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L37	29825	(library or collection or set or group) same (data or name or item or patern or profile) same search	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26

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L38	31504	(library or collection or set or group) same (data or name or item or pattern or profile) same search	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L39	6060	((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/1-200.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L40	1569	(((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/1-200.ccls.) and (proximity or similarity or nearness)	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L41	801	((((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/1-200.ccls.) and (proximity or similarity or nearness)) and comparison	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L42	15	((((((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/1-200.ccls.) and (proximity or similarity or nearness)) and comparison) and (collection same master)	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L43	801	(((((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/1-200.ccls.) and (proximity or similarity or nearness)) and comparison)	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L44	494	((((((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/1-200.ccls.) and (proximity or similarity or nearness)) and comparison) and (files or socuments)	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L45	464	(((((((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/1-200.ccls.) and (proximity or similarity or nearness)) and comparison) and (files or socuments )) and database	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L46	39	((((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/1-200.ccls.) and (proximity or similarity or nearness)) and (consolidation)	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26

L47	74	((library or collection or set or group) same (data or name or item or patern or profile) same search ) and (consolidation same database)	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L48	21	((library or collection or set or group) same (data or name or item or patern or profile) same search ) and (consolidat\$4 same (delet\$4 or remov\$4) same database)	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L49	26	consolidat\$4 same (data adj set) same database	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L50	49	(master adj (dictionary or library or collection or set)) same (data or name or item) same (sub\$1dictionary or sub\$1library or sub\$1collection or sub\$1set)	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L51		((master adj (dictionary or library or collection or set)) same (data or name or item) same (sub\$1dictionary or sub\$1library or sub\$1collection or sub\$1set)) and 707/1-206.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L52	0	((master adj (dictionary or library or collection or set)) same (data or name or item) same (sub\$1dictionary or sub\$1library or sub\$1collection or sub\$1set)) same 707/1-206.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L53	768	compil\$4 same (data adj set)	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L54	105	(compil\$4 same (data adj set)) and 707/1-206.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L55	9	compil\$4 same (data adj set) same sub\$1sets	US-PGPUB; USPAT; JPO	OR .	OFF	2006/04/24 20:26
L56	1044	(data adj set) same sub\$1sets	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L57	1	(master adj (data\$1set) same (sub\$1sets or sub\$1data\$1set))	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L58	176	( (data adj set) same sub\$1sets) and 707/1-206.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26

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L59	885	library same sub\$1librar\$3	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L60	0	master\$1library same sub\$1librar\$3	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L61	12	(library same sub\$1librar\$3) and 707/1-206.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L62	148	collection same sub\$1collection	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L63	54	(collection same sub\$1collection) and 707/1-206.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L64	12620	(remov\$3 or delet\$3 or eliminat\$3) same (duplicat\$3 or replicat\$3) same (records or data or information or item)	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L65	2015	((remov\$3 or delet\$3 or eliminat\$3) same (duplicat\$3 or replicat\$3) same (records or data or information or item)) and 707/1-206.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L66	24209	(remov\$3 or delet\$3 or eliminat\$3) same (duplicat\$3 or redundan\$3 or replicat\$3) same (records or data or information or item or files or docuemnts)	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L67	438	((remov\$3 or delet\$3 or eliminat\$3) adj (duplicat\$3 or redundan\$3 or replicat\$3)) same (records or data or information or item or files or docuemnts) same (integrat\$3 or merg\$4 or re\$organiz\$4)	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L68	126	(((remov\$3 or delet\$3 or eliminat\$3) adj (duplicat\$3 or redundan\$3 or replicat\$3)) same (records or data or information or item or files or docuemnts) same	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
		(integrat\$3 or merg\$4 or re\$organiz\$4)) and 707/1-206.ccls.		·		
L69	1	"5812998".pn.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L70	7	("5,812,998" or "6,163,782" or "6, 615,220" or "6,526,417" or "5,778, 363" or "6,199,067" or "6,108, 057").pn.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26

L71	2	("6,163,782" or "6,108,657").pn.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L72	66	((((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/2.ccls.) and (proximity or similarity or nearness)) and comparison	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L73	119	((((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/5.ccls.) and (proximity or similarity or nearness)) and comparison	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L74	114	((((library or collection or set or	US-PGPUB;	OR	OFF	2006/04/24 20:26
		group) same (data or name or item or pattern or profile) same search )	USPAT; JPO			
		and 707/10.ccls.) and (proximity or similarity or nearness)) and comparison				
L75	92	((((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/100.ccls.) and (proximity or similarity or nearness)) and comparison	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L76	140	((((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/104.1.ccls.) and (proximity or similarity or nearness)) and comparison	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L77	409	(((((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/1-200.ccls.) and (proximity or similarity or nearness)) and comparison) and (query same (documents or files))	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L78	1	"20020062318"	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L79	2	("5812998" or "6163782").pn.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L80	. 1	"5974457".pn.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26

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L81	1	"5974457".pn.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L82	1	"20030120627"	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L83	0	proximityt same abs	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L84	394	proximity same abs	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L85	54	proximity same abs and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L86	0	proximity same abs and @ad<"20001024" and @rlad<"20001024" and function and "707".ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L87	2	proximity same abs and @ad<"20001024" and @rlad<"20001024" and function and (database or library)	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L88	34	proximity same abs and @ad<"20001024" and @rlad<"20001024" and function	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L89	0	proximity same (abs with function) and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L90	207	(abs with function) and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L91	94	(abs with function) and @ad<"20001024" and @rlad<"20001024" and averag\$4	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L92	91	(abs with function) and @ad<"20001024" and @rlad<"20001024" and averag\$4 and sum\$4	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L93	0	(abs with function with averag\$4 with sum\$4) and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L94	2	(abs with averag\$4 with sum\$4) and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L95		(abs with function with averag\$4) and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26

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L96	777	(weight\$4 with "abs(") and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L97	1	(weight\$4 with averag\$ with sum\$4 with "abs(") and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L98	42	(weight\$4 with averag\$ with "abs(") and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L99	6	((differ\$4 or distan\$4) with averag\$ with "abs(") and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L100	0	("å" with "abs(") and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L101	17	(proximity with "abs(") and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L102	2	("/n" with "abs(") and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L103	0	("/n" with "abs(" with "sum(") and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
L104	59	( "abs(" with "sum(") and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:26
S1	7	("5,812,998" or "6,163,782" or "6, 615,220" or "6,526,417" or "5,778, 363" or "6,199,067" or "6,108, 057").pn.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/15 10:33
S2	2	("6,163,782" or "6,108,657").pn.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/15 10:34
S3	46	((((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/2.ccls.) and (proximity or similarity or nearness)) and comparison	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/15 10:39
S4	79	((((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/5.ccls.) and (proximity or similarity or nearness)) and comparison	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/15 10:39

S5	59	((((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/10.ccls.) and (proximity or similarity or nearness)) and comparison	US-PGPUB; USPAT; JPO	OR .	OFF	2004/02/15 10:39
S6	42	((((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/100.ccls.) and (proximity or similarity or nearness)) and comparison	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/15 10:40
S7	84	((((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/104.1.ccls.) and (proximity or similarity or nearness)) and comparison	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/15 10:40
S8	1	"20020062318"	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/12 15:37
S9	14363	(library or collection or set) same (data or name or item) same master	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/12 15:49
S10	449	((library or collection or set) same (data or name or item) same master) and 707/1-200.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/12 15:49
S11	812	(sub\$1library or sub\$1collection or sub\$1set or sub\$1group) same (data or name or item) same master	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/12 15:50
S12	68	((sub\$1library or sub\$1collection or sub\$1set or sub\$1group) same (data or name or item) same master) and 707/1-200.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 10:38
S13	319	consolidat\$3 same (redundan\$3 or replicat\$4 or duplicat\$4) same data	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/12 17:14
S14	77	consolidat\$3 same (redundan\$3 or replicat\$4 or duplicat\$4) same data same (set or collection or group or library)	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/12 16:42
S15	2168034	consolidat\$3 same (redundan\$3 or replicat\$4 or duplicat\$4 or overlap\$4) same data same (set or collection or group or library) same master s	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/12 16:43

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S16	2	consolidat\$3 same (redundan\$3 or replicat\$4 or duplicat\$4 or overlap\$4) same data same (set or collection or group or library) same master	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/12 16:43
S17	89	consolidat\$3 same (redundan\$3 or replicat\$4 or duplicat\$4 or overlap\$4) same data same (set or collection or group or library)	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/12 17:12
S18	26	(consolidat\$3 same (redundan\$3 or replicat\$4 or duplicat\$4 or overlap\$4) same data same (set or collection or group or library)) and 707/1-206.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/12 16:51
S19	1	(library same sub\$1library same master) and 707/1-206.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/12 16:52
S20	8	(library same sub\$1library ) and 707/1-206.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/12 16:52
S21	4	(consolidat\$3 same (redundan\$3 or replicat\$4 or duplicat\$4 or overlap\$4) same data same (set or collection or group or library)) and DNA	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/12 17:12
S22	8	(consolidat\$3 same (redundan\$3 or replicat\$4 or duplicat\$4) same data) and DNA	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/12 17:16
S23	14	707/1-206.ccls. and (sample same without same sequence)	US-PGPUB; USPAT; JPO	OR .	OFF	2004/02/12 17:17
S24	0	"2002/0152204" or "2003/0037077" or "2002/0059204" or "2001/0032204" or "2002/0194229" or "2003/0084041" or "641084".pn.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 10:23
S25	7	"20020152204" or "20030037077" or "20020059204" or "20010032204" or "20020194229" or "20030084041" or "6401084".pn.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 10:23
S26	1	((sub\$1library or sub\$1collection or sub\$1set or sub\$1group) same (data or name or item) same master) and 707/2.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 10:40
S27	8	((sub\$1library or sub\$1collection or sub\$1set or sub\$1group) same (data or name or item) same master) and 707/3.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 10:40

S28	2	((sub\$1library or sub\$1collection or sub\$1set or sub\$1group) same (data or name or item) same master) and 707/5.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 10:41
S29	0	((sub\$1library or sub\$1collection or sub\$1set or sub\$1group) same (data or name or item) same master) and 707/533.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 10:42
S30	18	((sub\$1library or sub\$1collection or sub\$1set or sub\$1group) same (data or name or item) same master) and 707/10.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 10:42
S31	441	(library or collection or set or group) same (data or name or item) same master same (sub\$1library or sub\$1collection or sub\$1set or sub\$1group)	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 13:13
S32	1	((library or collection or set or group) same (data or name or item) same master same (sub\$1library or sub\$1collection or sub\$1set or sub\$1group)) and 707/5.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 13:13
S33	10	((library or collection or set or group) same (data or name or item) same master same (sub\$1library or sub\$1collection or sub\$1set or sub\$1group)) and 707/1.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 15:50
S34	510	pattern same match\$3 same (string or text) same compar\$5	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 15:51
S35	86	(pattern same match\$3 same (string or text) same compar\$5) and 707/1-206.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 16:20
S36	735	(search or query) same document same string	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 16:21
S37	377	((search or query) same document same string) and 707/1-200.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 16:22
S38	63	(((search or query) same document same string) and 707/1-200.ccls.) and libraries	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 16:23
S39	18440	(library or collection or set or group) same (data or name or item or patern or profile) same search	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 22:43

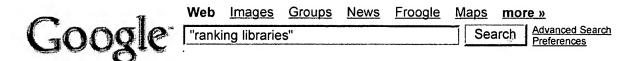
S40	19565	(library or collection or set or group) same (data or name or item or pattern or profile) same search	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 21:14
S41	3298	((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/1-200.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 21:14
S42	849	(((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/1-200.ccls.) and (proximity or similarity or nearness)	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 22:23
S43	433	((((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/1-200.ccls.) and (proximity or similarity or nearness)) and comparison	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/15 10:38
S44	5	(((((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/1-200.ccls.) and (proximity or similarity or nearness)) and comparison) and (collection same master)	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 21:21
S45	433	(((((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/1-200.ccls.) and (proximity or similarity or nearness)) and comparison)	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 21:19
S46	267	((((((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/1-200.ccls.) and (proximity or similarity or nearness)) and comparison) and (files or socuments)	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 21:21
S47	253	(((((((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/1-200.ccls.) and (proximity or similarity or nearness)) and comparison) and (files or socuments )) and database	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 21:21
S48	20	((((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/1-200.ccls.) and (proximity or similarity or nearness)) and (consolidation)	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 22:24

			_			
S49.	39	((library or collection or set or group) same (data or name or item or patern or profile) same search ) and (consolidation same database)	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 22:41
S50	13	((library or collection or set or group) same (data or name or item or patern or profile) same search ) and (consolidat\$4 same (delet\$4 or remov\$4) same database)	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 22:51
S51	14	consolidat\$4 same (data adj set) same database	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 22:53
S52	32	(master adj (dictionary or library or collection or set)) same (data or name or item) same (sub\$1dictionary or sub\$1library or sub\$1collection or sub\$1set)	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/14 10:08
S53	1	((master adj (dictionary or library or collection or set)) same (data or name or item) same (sub\$1dictionary or sub\$1library or sub\$1collection or sub\$1set)) and 707/1-206.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/14 10:04
S54	0	((master adj (dictionary or library or collection or set)) same (data or name or item) same (sub\$1dictionary or sub\$1library or sub\$1collection or sub\$1set)) same 707/1-206.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/14 10:04
S55	470	compil\$4 same (data adj set)	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/14 10:12
S56	67	(compil\$4 same (data adj set)) and 707/1-206.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:25
S57	7	compil\$4 same (data adj set) same sub\$1sets	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/14 10:13
S58	614	(data adj set) same sub\$1sets	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/14 10:14
S59	0	(master adj (data\$1set) same (sub\$1sets or sub\$1data\$1set))	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/14 10:15
S60	116	( (data adj set) same sub\$1sets) and 707/1-206.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/14 10:21

S61	595	library same sub\$1librar\$3	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/14 10:22
S62	0	master\$1library same sub\$1librar\$3	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/14 11:21
S63	11	(library same sub\$1librar\$3) and 707/1-206.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/14 10:54
S64	74	collection same sub\$1collection	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/14 10:27
S65	30	(collection same sub\$1collection) and 707/1-206.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/14 10:27
S66	8190	(remov\$3 or delet\$3 or eliminat\$3) same (duplicat\$3 or replicat\$3) same (records or data or information or item)	US-PGPUB; USPAT; JPO	OR .	OFF	2004/02/14 10:58
S67	1117	((remov\$3 or delet\$3 or eliminat\$3) same (duplicat\$3 or replicat\$3) same (records or data or information or item)) and 707/1-206.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/14 10:56
S68	15926	(remov\$3 or delet\$3 or eliminat\$3) same (duplicat\$3 or redundan\$3 or replicat\$3) same (records or data or information or item or files or docuemnts)	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/14 10:59
S69	240	((remov\$3 or delet\$3 or eliminat\$3) adj (duplicat\$3 or redundan\$3 or replicat\$3)) same (records or data or information or item or files or docuemnts) same (integrat\$3 or merg\$4 or re\$organiz\$4)	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/14 11:00
S70	59	(((remov\$3 or delet\$3 or eliminat\$3) adj (duplicat\$3 or redundan\$3 or replicat\$3)) same (records or data or information or item or files or docuemnts) same (integrat\$3 or merg\$4 or re\$organiz\$4)) and 707/1-206.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/14 11:00
S71	1	"5812998".pn.	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/14 11:21

S72	217	((((((library or collection or set or group) same (data or name or item or pattern or profile) same search ) and 707/1-200.ccls.) and (proximity or similarity or nearness)) and comparison) and (query same (documents or files))	US-PGPUB; USPAT; JPO	OR	OFF	2004/02/13 21:20	
S73	1	"20020062318"	US-PGPUB; USPAT; JPO	OR	OFF	2004/12/27 15:35	
S74	2	("5812998" or "6163782").pn.	US-PGPUB; USPAT; JPO	OR	OFF	2005/05/23 21:51	
S75	1	"5974457".pn.	US-PGPUB; USPAT; JPO	OR	OFF	2004/12/27 16:19	
S76	1	"5974457".pn.	US-PGPUB; USPAT; JPO	OR	OFF	2004/12/27 16:19	
S77	1	"20030120627"	US-PGPUB; USPAT; JPO	OR	OFF	2004/12/27 16:24	
S78	0	proximityt same abs	US-PGPUB; USPAT; JPO	OR	OFF	2005/05/23 21:52	
S79	328	proximity same abs	US-PGPUB; USPAT; JPO	ÖR	OFF	2005/05/23 21:52	
S80	54	proximity same abs and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2005/05/23 21:56	
S81	34	proximity same abs and @ad<"20001024" and @rlad<"20001024" and function	US-PGPUB; USPAT; JPO	OR	OFF	2006/04/24 20:24	
S82	0	proximity same abs and @ad<"20001024" and @rlad<"20001024" and function and "707".ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2005/05/23 21:57	
S83	2	proximity same abs and @ad<"20001024" and @rlad<"20001024" and function and (database or library)	US-PGPUB; USPAT; JPO	OR	OFF	2005/05/23 21:57	
S84	0	proximity same (abs with function) and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2005/05/23 22:00	
S85	206	(abs with function) and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2005/05/23 22:20	

S86	94	(abs with function) and @ad<"20001024" and @rlad<"20001024" and averag\$4	US-PGPUB; USPAT; JPO	OR	OFF	2005/05/23 22:00
S87	91	(abs with function) and @ad<"20001024" and @rlad<"20001024" and averag\$4 and sum\$4	US-PGPUB; USPAT; JPO	OR	OFF	2005/05/23 22:18
S88	0	(abs with function with averag\$4 with sum\$4) and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2005/05/23 22:19
S89	2	(abs with averag\$4 with sum\$4) and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2005/05/23 22:19
S90	1	(abs with function with averag\$4) and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2005/05/23 22:22
S91	777	(weight\$4 with "abs(") and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2005/05/23 22:23
S92	1	(weight\$4 with averag\$ with sum\$4 with "abs(") and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2005/05/23 22:24
S93	42	(weight\$4 with averag\$ with "abs(") and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2005/05/23 22:26
S94	6	((differ\$4 or distan\$4) with averag\$ with "abs(") and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; ♥ JPO	OR	OFF	2005/05/23 22:38
S95	. 0	("å" with "abs(") and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2005/05/23 22:41
S96	17	(proximity with "abs(") and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2005/05/23 22:42
S97	2	("/n" with "abs(") and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2005/05/23 22:44
S98	0	("/n" with "abs(" with "sum(") and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2005/05/23 22:45
S99	59	( "abs(" with "sum(") and @ad<"20001024" and @rlad<"20001024"	US-PGPUB; USPAT; JPO	OR	OFF	2005/05/23 22:45



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... and top **ranking libraries** based on several performance criteria; and statistical data on services, interlibrary lending, collections, operating income, ... www.eric.ed.gov/sitemap/html\_0900000b80049cb1.html - 5k - Cached - Similar pages

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Caption = "Step " + strStep + " of " + NumberOfSteps > + " : Ranking libraries by ASP" > lblLibraryStatus.Refresh > > ' Perform all of the setups and ... lists.macserve.net/pipermail/ valentina/2004-September/009774.html - 6k - Supplemental Result - Cached - Similar pages

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... Mostly statistics are used for trend analysis, comparing an individual library to others in its peer group, **ranking libraries** in terms of income and ... notarydepot.com/Research/www.state.nh.us/ nhsl/grants2000final.html - 76k - Supplemental Result - <u>Cached</u> - <u>Similar pages</u>

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#### Board of Selectmen Minutes 1/5/04

... of The 'Beacon' put out by The Massachusetts Municipal Association in which there was an article **ranking libraries** both State and nationwide. ... natickma.virtualtownhall.net/Public\_Documents/
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#### Medina County District Library - Library Info and Resources

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+ ": Ranking libraries by ASP" lblLibraryStatus.Refresh ' Perform all of the setups and initializations intMultiplier = intLibraryCount / 100 intCount = 0 ... www.leafe.com/archives/showMsg/223335 - 8k - Supplemental Result - Cached - Similar pages

#### Valentina:: Re: Problem with cursor

+ ": Ranking libraries by ASP" > lblLibraryStatus.Refresh > > ! Perform all of the setups and initializations > intMultiplier = intLibraryCount / 100 ... www.leafe.com/archives/showMsg/223352 - 9k - Supplemental Result - Cached - Similar pages

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CONNECTION. Summer 2004. Volume 6 Number 2. Nylink. http://Nylink.suny.edu. INSIDE THIS ISSUE. From the Director . . . . 2. Nylink News . ... lists.nylink.suny.edu/docu/nc/NCsum04.pdf - Supplemental Result - Similar pages

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If you like, you can repeat the search with the omitted results included.

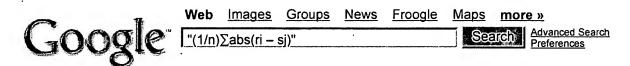
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### Web

1

Tip: Try removing quotes from your search to get more results.

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Your search - " $(1/n)\sum abs(ri - sj)$ " - did not match any documents.

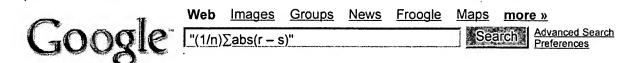
Abs 1
Everything to do with
Abs items.
eBay.com

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- Make sure all words are spelled correctly.
- Try different keywords.
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## Web

Tip: Try removing quotes from your search to get more results.

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Your search - " $(1/n)\sum abs(r-s)$ " - did not match any documents.

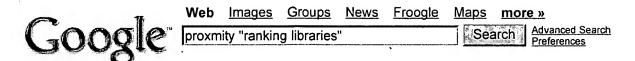
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- Try more general keywords.

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Relevance scale

1 Fast detection of communication patterns in distributed executions

window

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

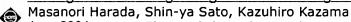
Publisher: IBM Press

Full text available: pdf(4.21 MB) Addition

Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

<sup>2</sup> Mining and disambiguating names: Finding authoritative people from the web



June 2004 Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries
Publisher: ACM Press

Full text available: pdf(260.06 KB) Additional Information: full citation, abstract, references, index terms

Today's web is so huge and diverse that it arguably reflects the real world. For this reason, searching the web is a promising approach to find things in the real world. This paper presents NEXAS, an extension to web search engines that attempts to find real-worldentities relevant to a topic. Its basic idea is to extract proper names from the web pages retrieved for the topic. A main advantage of this approach is that users can query any topic and learn about relevant real-world entities without ...

**Keywords:** proper name extraction, question answering, text analysis, web mining

3 XML and text: XRANK: ranked keyword search over XML documents

Lin Guo, Feng Shao, Chavdar Botev, Jayavel Shanmugasundaram

June 2003 Proceedings of the 2003 ACM SIGMOD international conference on Management of data

**Publisher: ACM Press** 

Full text available: pdf(265.38 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

We consider the problem of efficiently producing ranked results for keyword search

queries over hyperlinked XML documents. Evaluating keyword search queries over hierarchical XML documents, as opposed to (conceptually) flat HTML documents, introduces many new challenges. First, XML keyword search queries do not always return entire documents, but can return deeply nested XML elements that contain the desired keywords. Second, the nested structure of XML implies that the notion of ranking is no I ...

4 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital



裔 <u>libraries</u>

Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2

Publisher: ACM Press

Full text available: pdf(316.85 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously and usefully. Streams are sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Structures can be viewed as labeled directed gra ...

**Keywords:** applications., definitions, foundations, taxonomy

5 Tools & techniques track: frameworks for building libraries: Using collection



descriptions to enhance an aggregation of harvested item-level metadata

Muriel Foulonneau, Timothy W. Cole, Thomas G. Habing, Sarah L. Shreeves

June 2005 Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries

Publisher: ACM Press

Full text available: pdf(1.09 MB) Additional Information: full citation, abstract, references, index terms

As an increasing number of digital library projects embrace the harvesting of item-level descriptive metadata, issues of description granularity and concerns about potential loss of context when harvesting item-level metadata take on greater significance. Collection-level description can provide valuable context for item-level metadata records harvested from disparate and heterogeneous providers. This paper describes an ongoing experiment using collection-level description in concert with item-l ...

**Keywords:** collection-level description, descriptive metadata, metadata aggregation, open archives initiative

6 Research sessions: text and DB: On the integration of structure indexes and inverted



<u>lists</u>

Raghav Kaushik, Rajasekar Krishnamurthy, Jeffrey F. Naughton, Raghu Ramakrishnan June 2004 Proceedings of the 2004 ACM SIGMOD international conference on Management of data

**Publisher:** ACM Press

Full text available: pdf(228.17 KB) Additional Information: full citation, abstract, references, citings

Several methods have been proposed to evaluate queries over a native XML DBMS, where the queries specify both path and keyword constraints. These broadly consist of graph traversal approaches, optimized with auxiliary structures known as structure indexes; and approaches based on information-retrieval style inverted lists. We propose a strategy that combines the two forms of auxiliary indexes, and a query evaluation algorithm for branching path expressions based on this strategy. Our technique i ...

7 Region proximity in metric spaces and its use for approximate similarity search



Giuseppe Amato, Fausto Rabitti, Pasquale Savino, Pavel Zezula

April 2003 ACM Transactions on Information Systems (TOIS), Volume 21 Issue 2

Publisher: ACM Press

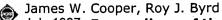
Full text available: pdf(1.01 MB)

Additional Information: full citation, abstract, references, index terms

Similarity search structures for metric data typically bound object partitions by ball regions. Since regions can overlap, a relevant issue is to estimate the proximity of regions in order to predict the number of objects in the regions' intersection. This paper analyzes the problem using a probabilistic approach and provides a solution that effectively computes the proximity through realistic heuristics that only require small amounts of auxiliary data. An extensive simulation to validate the t ...

**Keywords**: Approximation algorithms, approximate similarity search, metric data, metric trees, performance evaluation

8 Lexical navigation: visually prompted query expansion and refinement



July 1997 Proceedings of the second ACM international conference on Digital libraries

Publisher: ACM Press

Full text available: R pdf(1.27 MB)

'04

Additional Information: full citation, references, citings, index terms

9 Collision detection and proximity queries

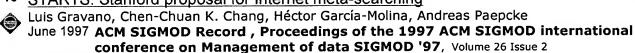


Publisher: ACM Press

Full text available: 📆 pdf(11.22 MB) Additional Information: full citation, abstract

This course will primarily cover widely accepted and proved methodologies in collision detection. In addition more advanced or recent topics such as continuous collision detection, ADFs, and using graphics hardware will be introduced. When appropriate the methods discussed will be tied to familiar applications such as rigid body and cloth simulation, and will be compared. The course is a good overview for those developing applications in physically based modeling, VR, haptics, and robotics.

10 STARTS: Stanford proposal for Internet meta-searching



**Publisher: ACM Press** 

Full text available: pdf(1.53 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Document sources are available everywhere, both within the internal networks of organizations and on the Internet. Even individual organizations use search engines from different vendors to index their internal document collections. These search engines are typically incompatible in that they support different query models and interfaces, they do not return enough information with the query results for adequate merging of the results, and finally, in that they do not export metadata about t ...

11 Early user---system interaction for database selection in massive domain-specific



#### online environments

Jack G. Conrad, Joanne R. S. Claussen

January 2003 ACM Transactions on Information Systems (TOIS), Volume 21 Issue 1

Publisher: ACM Press

Full text available: pdf(845.54 KB) Additional Information: full citation, abstract, references, index terms

The continued growth of very large data environments such as Westlaw and Dialog, in addition to the World Wide Web, increases the importance of effective and efficient database selection and searching. Current research focuses largely on completely autonomous and automatic selection, searching, and results merging in distributed environments. This fully automatic approach has significant deficiencies, including reliance upon thresholds below which databases with relevant documents are not search ...

Keywords: Database selection, metadata for retrieval, structuring information to aid search and navigation, user interaction

12 Natural language information retrieval in digital libraries

Tomek Strzalkowski, Jose Perez-Carballo, Mihnea Marinescu

April 1996 Proceedings of the first ACM international conference on Digital libraries

**Publisher: ACM Press** 

Full text available: pdf(1.03 MB) Additional Information: full citation, references, index terms

13 Paper session IR-1 (information retrieval): XML retrieval: Structured gueries in XML





retrieval

Jaap Kamps, Maarten Marx, Maarten de Rijke, Börkur Sigurbjörnsson

October 2005 Proceedings of the 14th ACM international conference on Information and knowledge management CIKM '05

Publisher: ACM Press

Full text available: pdf(260.03 KB) Additional Information: full citation, abstract, references, index terms

Document-centric XML is a mixture of text and structure. With the increased availability of document-centric XML content comes a need for query facilities in which both structural constraints and constraints on the content of the documents can be expressed. How does the expressiveness of languages for querying XML documents help users to express their information needs? We address this question from both an experimental and a theoretical point of view. Our experimental analysis compares a struct ...

Keywords: XML retrieval, XPath, full-text XML querying

14 New approaches in GIR: Challenges and resources for evaluating geographical IR



November 2005 Proceedings of the 2005 workshop on Geographic information retrieval GIR '05

Publisher: ACM Press

Full text available: pdf(79.41 KB) Additional Information: full citation, abstract, references, index terms

This paper discusses evaluation of Geo-IR systems, arguing for a separate study of the different algorithmic components involved. It presents existing resources for evaluating the different components, together with a review on previous results in the area.

**Keywords**: Geo-IR, evaluation



## 15 XIRQL: An XML query language based on information retrieval concepts

Norbert Fuhr, Kai Groβjohann

April 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 2

**Publisher: ACM Press** 

Full text available: pdf(281.91 KB)

Additional Information: full citation, abstract, references, citings, index terms

XIRQL ("circle") is an XML query language that incorporates imprecision and vagueness for both structural and content-oriented query conditions. The corresponding uncertainty is handled by a consistent probabilistic model. The core features of XIRQL are (1) document ranking based on index term weighting, (2) specificity-oriented search for retrieving the most relevant parts of documents, (3) datatypes with vague predicates for dealing with specific types of content and (4) structural vagueness f ...

**Keywords**: Path algebra, XML, XQuery, probabilistic retrieval, ranked retrieval, vague predicates

# 16 <u>Distributed interface bits: dynamic dialogue composition from ambient computing</u> resources

Anthony Savidis, Constantine Stephanidis

May 2005 Personal and Ubiquitous Computing, Volume 9 Issue 3

Publisher: Springer-Verlag

Full text available: pdf(1.70 MB) Additional Information: full citation, abstract

This paper discusses a particular issue in the context of disappearing computing, namely, user mobility. Mobile users may carry with them a variety of wireless gadgets while being immersed in a physical environment encompassing numerous computing devices. In such a situation, it is most likely that the number and type of devices may dynamically vary during interactions. The Voyager development framework supports the implementation of ambient dialogues, i.e., dynamically distributed user Interfac ...

**Keywords**: Abstract dialogue elements, Adaptive interaction, Ambient dialogues, Dynamic user interface composition, Wearable interfaces

## 17 A model of multimedia information retrieval

Carlo Meghini, Fabrizio Sebastiani, Umberto Straccia
September 2001 Journal of the ACM (JACM), Volume 48 Issue 5

Publisher: ACM Press

Full text available: pdf(5.69 MB)

Additional Information: full citation, abstract, references, citings, index terms

Research on multimedia information retrieval (MIR) has recently witnessed a booming interest. A prominent feature of this research trend is its simultaneous but independent materialization within several fields of computer science. The resulting richness of paradigms, methods and systems may, on the long run, result in a fragmentation of efforts and slow down progress. The primary goal of this study is to promote an integration of methods and techniques for MIR by contributing a conceptual model ...

**Keywords**: Description logics, fuzzy logics, multimedia information retrieval

18 Crawling the web: Panorama: extending digital libraries with topical crawlers

Gautam Pant, Kostas Tsioutsiouliklis, Judy Johnson, C. Lee Giles
June 2004 Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries

Publisher: ACM Press

Full text available: pdf(1.16 MB) Additional Information: full citation, abstract, references, index terms

A large amount of research, technical and professional documents are available today in digital formats Digital libraries are created to facilitate search and retrieval of information supplied by the documents. These libraries may span an entire area of interest (e.g., computer science) or be limited to documents within a small organization. While tools that index, classify, rank and retrieve documents from such libraries are important, it would be worthwhile to complement these tools with infor ...

Keywords: classification, clustering, digital libraries, topical crawling, web mining

19 Building and using cultural digital libraries: Supporting access to large digital oral history archives



Samuel Gustman, Dagobert Soergel, Douglas Oard, William Byrne, Michael Picheny, Bhuvana Ramabhadran, Douglas Greenberg

July 2002 Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries **Publisher: ACM Press** 

Full text available: pdf(734.60 KB)

Additional Information: full citation, abstract, references, citings, index

This paper describes our experience with the creation, indexing, and provision of access to a very large archive of videotaped oral histories - 116,000 hours of digitized interviews in 32 languages from 52,000 survivors, liberators, rescuers, and witnesses of the Nazi Holocaust. It goes on to identify a set of critical research issues that must be addressed if we are to provide full and detailed access to collections of this size: issues in user requirement studies, automatic speech recognition, ...

Keywords: cataloging, oral history, research agenda

20 Application models: Client-system collaboration for legal corpus selection in an online



production environment

Jack G. Conrad, Joanne R. S. Claussen

June 2003 Proceedings of the 9th international conference on Artificial intelligence and law

**Publisher: ACM Press** 

Full text available: pdf(239.10 KB) Additional Information: full citation, abstract, references

The continued growth of very large data environments such as Westlaw and Dialog, in addition to the World Wide Web, increases the importance of effective and efficient database selection and searching. Current research focuses largely on completely autonomous and automatic selection, searching, and results merging in distributed environments. This fully automatic approach has significant deficiencies, including reliance upon thresholds below which databases with relevant documents are not search ...

**Keywords**: database selection, query categorization, user interaction

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Results 21 - 40 of 103

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Relevance scale

21 Components of GIR: Indexing and ranking in Geo-IR systems

window

Bruno Martins, Mário J. Silva, Leonardo Andrade

November 2005 Proceedings of the 2005 workshop on Geographic information retrieval GIR '05

Publisher: ACM Press

Full text available: pdf(143.13 KB) Additional Information: full citation, abstract, references, index terms

This paper addresses document indexing and retrieval using geographical location. It discusses possible indexing structures and result ranking algorithms, surveying known approaches and showing how they can be combined to build an effective Geo-IR system.

Keywords: Geo-IR, indexing, ranking, searching

22 Books and reading: A document corpus browser for in-depth reading

Eric Bier, Lance Good, Kris Popat, Alan Newberger

June 2004 Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries

Publisher: ACM Press

Full text available: pdf(164.61 KB)

Additional Information: full citation, abstract, references, citings, index terms

Software tools, including Web browsers, e-books, electronic document formats, search engines, and digital libraries are changing the way people read, making it easier for them to find and view documents. However, while these tools provide significant help with short-term reading projects involving small numbers of documents, they provide less help with longer-term reading projects, in which a topic is to be understood in depth by reading many documents. For such projects, readers must find and m ...

**Keywords**: bookplex, computer-aided reading, digital library, document management, spatial memory, visualization, zoomable user interface

23 Geospatial mapping and navigation of the web

Kevin S. McCurley

April 2001 Proceedings of the 10th international conference on World Wide Web

Publisher: ACM Press

Full text available: pdf(1.06 MB)

Additional Information: full citation, references, citings, index terms

**Keywords**: browsers, geographic information systems, geospatial information retrieval, navigation

24 A framework for modeling and evaluating automatic semantic reconciliation

Avigdor Gal, Ateret Anaby-Tayor, Alberto Trombetta, Danilo Montesi

March 2005 The VLDB Journal — The International Journal on Very Large Data Bases,

Volume 14 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(472.75 KB) Additional Information: full citation, abstract

The introduction of the Semantic Web vision and the shift toward machine understandable Web resources has unearthed the importance of automatic semantic reconciliation. Consequently, new tools for automating the process were proposed. In this work we present a formal model of semantic reconciliation and analyze in a systematic manner the properties of the process outcome, primarily the inherent uncertainty of the matching process and how it reflects on the resulting mappings. An important featur ...

**Keywords**: Mapping, Ontology versioning, Semantic interoperability

25 Efficient web browsing on handheld devices using page and form summarization

Publisher: ACM Press

January 2002 ACM Transactions on Information Systems (TOIS), Volume 20 Issue 1

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(4.47 MB) terms, review

We present a design and implementation for displaying and manipulating HTML pages on small handheld devices such as personal digital assistants (PDAs), or cellular phones. We introduce methods for summarizing parts of Web pages and HTML forms. Each Web page is broken into text units that can each be hidden, partially displayed, made fully visible, or summarized. A variety of methods are introduced that summarize the text units. In addition, HTML forms are also summarized by displaying just the t ...

Keywords: PDA, Personal digital assistant, WAP, WML, forms, handheld computers, mobile computing, summarization, ubiquitous computing, wireless computing

26 Searching in metric spaces

Edgar Chávez, Gonzalo Navarro, Ricardo Baeza-Yates, José Luis Marroquín September 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 3

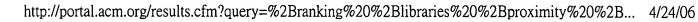
Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: R pdf(916.04 KB) terms

The problem of searching the elements of a set that are close to a given query element under some similarity criterion has a vast number of applications in many branches of computer science, from pattern recognition to textual and multimedia information retrieval. We are interested in the rather general case where the similarity criterion defines a metric space, instead of the more restricted case of a vector space. Many solutions have been proposed in different areas, in many cases without cros ...

Keywords: Curse of dimensionality, nearest neighbors, similarity searching, vector spaces





27 Summarization and question answering: QuASM: a system for question answering



using semi-structured data

David Pinto, Michael Branstein, Ryan Coleman, W. Bruce Croft, Matthew King, Wei Li, Xing Wei

July 2002 Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries Publisher: ACM Press

Full text available: pdf(292.22 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

This paper describes a system for question answering using semi-structured metadata, QuASM (pronounced "chasm"). Question answering systems aim to improve search performance by providing users with specific answers, rather than having users scan retrieved documents for these answers. Our goal is to answer factual questions by exploiting the structure inherent in documents found on the World Wide Web (WWW). Based on this structure, documents are indexed into smaller units and associated with meta ...

**Keywords**: content documents, language model, metadata, question answering, question classification, semi-structured, tables

28 Semantic search: A search engine for natural language applications



۱

Michael J. Cafarella, Oren Etzioni

May 2005 Proceedings of the 14th international conference on World Wide Web Publisher: ACM Press

Full text available: pdf(322.12 KB) Additional Information: full citation, abstract, references, index terms

Many modern natural language-processing applications utilize search engines to locate large numbers of Web documents or to compute statistics over the Web corpus. Yet Web search engines are designed and optimized for simple human queries---they are not well suited to support such applications. As a result, these applications are forced to issue millions of successive queries resulting in unnecessary search engine load and in slow applications with limited scalability. In response, this paper intr ...

**Keywords**: corpus, indexing, information extraction, language, query, search engine, variables

29 Building efficient and effective metasearch engines



Weiyi Meng, Clement Yu, King-Lup Liu

March 2002 ACM Computing Surveys (CSUR), Volume 34 Issue 1

**Publisher: ACM Press** 

Full text available: pdf(416.07 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

Frequently a user's information needs are stored in the databases of multiple search engines. It is inconvenient and inefficient for an ordinary user to invoke multiple search engines and identify useful documents from the returned results. To support unified access to multiple search engines, a metasearch engine can be constructed. When a metasearch engine receives a query from a user, it invokes the underlying search engines to retrieve useful information for the user. Metasearch engines have ...

**Keywords**: Collection fusion, distributed collection, distributed information retrieval, information resource discovery, metasearch

## 30 A patent search and classification system



Leah S. Larkey
August 1999 Proceedings of the fourth ACM conference on Digital libraries

**Publisher: ACM Press** 

Full text available: 📆 pdf(164.37 KB) Additional Information: full citation, references, citings, index terms

Keywords: applications, classification, digital libraries, information retrieval, patents, systems, text categorization

31 Standards: SQL multimedia and application packages (SQL/MM)



Jim Melton, Andrew Eisenberg

December 2001 ACM SIGMOD Record, Volume 30 Issue 4

Publisher: ACM Press

Full text available: 📆 pdf(616.75 KB) Additional Information: full citation, abstract, references, citings

Regular readers of this column will have become familiar with database language SQL -indeed, most readers are already familiar with it. We have also discussed the fact that the SQL standard is being published in multiple parts and have even discussed one of those parts in some detail[I]. Another standard, based on SQL and its structured user-defined types[2], has been developed and published by the International Organization for Standardization (ISO). This standard, like SQL, is divided into mu ...

32 A novel document retrieval method using the discrete wavelet transform



Laurence A. F. Park, Kotagiri Ramamohanarao, Marimuthu Palaniswami July 2005 ACM Transactions on Information Systems (TOIS), Volume 23 Issue 3

**Publisher: ACM Press** 

Full text available: pdf(410.57 KB) Additional Information: full citation, abstract, references, index terms

Current information retrieval methods either ignore the term positions or deal with exact term positions; the former can be seen as coarse document resolution, the latter as fine document resolution. We propose a new spectral-based information retrieval method that is able to utilize many different levels of document resolution by examining the term patterns that occur in the documents. To do this, we take advantage of the multiresolution analysis properties of the wavelet transform. We show tha ...

Keywords: Daubechies, Haar, document retrieval, multiresolution analysis, proximity search, vector space methods, wavelet transform

33 Proximal nodes: a model to query document databases by content and structure Gonzalo Navarro, Ricardo Baeza-Yates



October 1997 ACM Transactions on Information Systems (TOIS), Volume 15 Issue 4

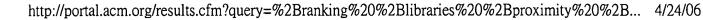
**Publisher: ACM Press** 

Full text available: pdf(550.43 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

A model to query document databases by both their content and structure is presented. The goal is to obtain a query language that is expressive in practice while being efficiently implementable, features not present at the same time in previous work. The key ideas of the model are a set-oriented query language based on operations on nearby structure elements of one or more hierarchies, together with content and structural indexing and bottom-up evaluation. The model is evaluated in regard t ...

Keywords: expressivity and efficiency of query languages, hierarchical documents,



structured text, text algebras

34 Opening session: Scaling IR-system evaluation using term relevance sets

Einat Amitay, David Carmel, Ronny Lempel, Aya Soffer

July 2004 Proceedings of the 27th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '04

Publisher: ACM Press

Full text available: pdf(294.60 KB)

Additional Information: full citation, abstract, references, citings, index

This paper describes an evaluation method based on Term Relevance Sets Trels that measures an IR system's quality by examining the content of the retrieved results rather than by looking for pre-specified relevant pages. Trels consist of a list of terms believed to be relevant for a particular query as well as a list of irrelevant terms. The proposed method does not involve any document relevance judgments, and as such is not adversely affected by changes to the underlying collection. The ...

Keywords: IR-system evaluation, keywords, trels, web search evaluation

35 Indexing and retrieval of scientific literature

Steve Lawrence, Kurt Bollacker, C. Lee Giles

November 1999 Proceedings of the eighth international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(985.22 KB)

Additional Information: full citation, abstract, references, citings, index

The web has greatly improved access to scientific literature. However, scientific articles on the web are largely disorganized, with research articles being spread across archive sites, institution sites, journal sites, and researcher homepages. No index covers all of the available literature, and the major web search engines typically do not index the content of Postscript/PDF documents at all. This paper discusses the creation of digital libraries of scientific literature on the web, incl ...

36 Music ranking techniques evaluated

Alexandra L. Uitdenbogerd, Justin Zobel

January 2002 Australian Computer Science Communications, Proceedings of the twenty-fifth Australasian conference on Computer science - Volume 4 CRPITS '02, Volume 24 Issue 1

Publisher: Australian Computer Society, Inc., IEEE Computer Society Press

Full text available: pdf(872.80 KB) Additional Information: full citation, abstract, references, index terms

In a music retrieval system, a user presents a piece of music as a query and the system must identify from a corpus of performances other pieces with a similar melody. Several techniques have been proposed for matching such queries to stored music. In previous work, we found that local alignment, a technique derived from bioinformatics, was more effective than the n-gram methods derived from information retrieval; other researchers have reported success with n-grams, but have not compared agains ...

Keywords: edit distances, manual and automatic queries, music matching techniques, ngram matching

37 Conceptual schema analysis: techniques and applications

S. Castano, V. De Antonellis, M. G. Fugini, B. Pernici





September 1998 ACM Transactions on Database Systems (TODS), Volume 23 Issue 3 **Publisher: ACM Press** 

Full text available: pdf(350.09 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

The problem of analyzing and classifying conceptual schemas is becoming increasingly important due to the availability of a large number of schemas related to existing applications. The purposes of schema analysis and classification activities can be different: to extract information on intensional properties of legacy systems in order to restructure or migrate to new architectures; to build libraries of reference conceptual components to be used in building new applications in a given domai ...

**Keywords**: conceptual modeling, reference components, schema classification, schema similarity

38 Information retrieval session 8: efficiency: Efficient query evaluation using a two-level



retrieval process

Andrei Z. Broder, David Carmel, Michael Herscovici, Aya Soffer, Jason Zien November 2003 Proceedings of the twelfth international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(248.95 KB) Additional Information: full citation, abstract, references, index terms

We present an efficient query evaluation method based on a two level approach: at the first level, our method iterates in parallel over query term postings and identifies candidate documents using an approximate evaluation taking into account only partial information on term occurrences and no query independent factors; at the second level, promising candidates are fully evaluated and their exact scores are computed. The efficiency of the evaluation process can be improved signific ...

Keywords: WAND, document-at-a-time, efficient query evaluation

39 IR-5 (information retrieval): information retrieval applications: Taxonomy-driven



computation of product recommendations

Cai-Nicolas Ziegler, Georg Lausen, Lars Schmidt-Thieme

November 2004 Proceedings of the thirteenth ACM international conference on Information and knowledge management CIKM '04

**Publisher: ACM Press** 

Full text available: pdf(269.57 KB)

Additional Information: full citation, abstract, references, citings, index terms

Recommender systems have been subject to an enormous rise in popularity and research interest over the last ten years. At the same time, very large taxonomies for product classification are becoming increasingly prominent among e-commerce systems for diverse domains, rendering detailed machine-readable content descriptions feasible. Amazon.com makes use of an entire plethora of hand-crafted taxonomies classifying books, movies, apparel, and various other goods. We exploit such taxonomic backg ...

**Keywords**: machine learning, recommender systems, taxonomies

40 IR-2 (information retrieval): web information retrieval: Acquisition of categorized named entities for web search



Marius Pasca

November 2004 Proceedings of the thirteenth ACM international conference on

#### Information and knowledge management CIKM '04

Publisher: ACM Press

Full text available: pdf(229.09 KB) Additional Information: full citation, abstract, references, index terms

The recognition of names and their associated categories within unstructured text traditionally relies on semantic lexicons and gazetteers. The amount of effort required to assemble large lexicons confines the recognition to either a limited domain (e.g., <i>medical imaging</i>), or a small set of pre-defined, broader categories of interest (e.g., <i>persons</i>, <i>countries</i>, <i>organizations</i>, <i>products</i>). This constitutes a serious limita ...

**Keywords:** Information integration, lightweight text processing, named entity extraction, related names and categories, web information retrieval

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Result page: previous 1 2 **3** 4

Relevance scale

41 Link and channel measurement: A simple mechanism for capturing and replaying



wireless channels Glenn Judd, Peter Steenkiste

August 2005 Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05

Publisher: ACM Press

Full text available: pdf(6.06 MB) Additional Information: full citation, abstract, references, index terms

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

Keywords: channel capture, emulation, wireless

42 Special issue: Al in engineering

D. Sriram, R. Joobbani

April 1985 ACM SIGART Bulletin, Issue 92

Publisher: ACM Press

Full text available: 📆 pdf(8.79 MB) Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

43 Research session: DB and IR #1: An efficient and versatile guery engine for TopX search

Martin Theobald, Ralf Schenkel, Gerhard Weikum

August 2005 Proceedings of the 31st international conference on Very large data bases VLDB '05

**Publisher: VLDB Endowment** 

Full text available: Top pdf(442.21 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a novel engine, coined TopX, for efficient ranked retrieval of XML

documents over semistructured but nonschematic data collections. The algorithm follows the paradigm of threshold algorithms for top-k query processing with a focus on inexpensive sequential accesses to index lists and only a few judiciously scheduled random accesses. The difficulties in applying the existing top-k algorithms to XML data lie in 1) the need to consider scores for XML elements while aggreg ...

44 Query expansion using local and global document analysis

Jinxi Xu, W. Bruce Croft

August 1996 Proceedings of the 19th annual international ACM SIGIR conference on Research and development in information retrieval

Publisher: ACM Press

Full text available: pdf(722.09 KB) Additional Information: full citation, references, citings, index terms

45 Melodic matching techniques for large music databases





Alexandra Uitdenbgerd, Justin Zobel

October 1999 Proceedings of the seventh ACM international conference on Multimedia (Part 1)

Publisher: ACM Press

Full text available: R pdf(1.24 MB)

Additional Information: full citation, abstract, references, citings, index

With the growth in digital representations of music, and of music stored in these representations, it is increasingly attractive to search collections of music. One mode of search is by similarity, but, for music, similarity search presents several difficulties: in particular, for melodic query support, deciding what part of the music is likely to be perceived as the theme by a listener, and deciding whether two pieces of music with different sequences of notes represent the same theme. In ...

46 Partial replica selection based on relevance for information retrieval



Zhihong Lu, Kathryn S. McKinley

August 1999 Proceedings of the 22nd annual international ACM SIGIR conference on Research and development in information retrieval

Publisher: ACM Press

Full text available: pdf(271.29 KB) Additional Information: full citation, references, citings, index terms

47 Support for location: An architecture for privacy-sensitive ubiquitous computing



Jason I. Hong, James A. Landay

June 2004 Proceedings of the 2nd international conference on Mobile systems, applications, and services MobiSys '04

Publisher: ACM Press

Full text available: pdf(658.54 KB)

Additional Information: full citation, abstract, references, citings, index

Privacy is the most often-cited criticism of ubiquitous computing, and may be the greatest barrier to its long-term success. However, developers currently have little support in designing software architectures and in creating interactions that are effective in helping end-users manage their privacy. To address this problem, we present Confab, a toolkit for facilitating the development of privacy-sensitive ubiquitous computing applications. The requirements for Confab were gathered through an an ...

Keywords: confab, location, privacy, toolkit, ubiquitous computing

## 48 Beyond document similarity: understanding value-based search and browsing technologies



Andreas Paepcke, Hector Garcia-Molina, Gerard Rodriguez-Mula, Junghoo Cho March 2000 ACM SIGMOD Record, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(1.29 MB) Additional Information: full citation, abstract, citings, index terms

In the face of small, one or two word queries, high volumes of diverse documents on the Web are overwhelming search and ranking technologies that are based on document similarity measures. The increase of multimedia data within documents sharply exacerbates the shortcomings of these approaches. Recently, research prototypes and commercial experiments have added techniques that augment similarity-based search and ranking. These techniques rely on judgments about the 'value' of documents. Jud ...

Keywords: World-Wide Web, collaborative filtering, hypertext, information filters, information retrieval, links, metadata, ranking, relevance, search engines

49 Gathering at the well: creating communities for grid I/O



Douglas Thain, John Bent, Andrea Arpaci-Dusseau, Remzi Arpaci-Dusseau, Miron Livny November 2001 Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(139.41 KB) <u>terms</u>

Grid applications have demanding I/O needs. Schedulers must bring jobs and data in close proximity in order to satisfy throughput, scalability, and policy requirements. Most systems accomplish this by making either jobs or data mobile. We propose a system that allows jobs and data to meet by binding execution and storage sites together into I/O communities which then participate in the wide-area system. The relationships between participants in a community may be expressed by the ClassAd ...

50 A multi-paradigm querying approach for a generic multimedia database management



system

Ji-Rong Wen, Qing Li, Wei-Ying Ma, Hong-Jiang Zhang March 2003 ACM SIGMOD Record, Volume 32 Issue 1

Publisher: ACM Press

Full text available: 📆 pdf(524.08 KB) Additional Information: full citation, abstract, references, citings

To truly meet the requirements of multimedia database (MMDB) management, an integrated framework for modeling, managing and retrieving various kinds of media data in a uniform way is necessary. MediaLand is an experimental MMDB platform being developed at Microsoft Research Asia for users with different levels of experiences and expertise to manage and search multimedia repositories easily, efficiently, and cooperatively. Key features of MediaLand include a uniform data model for describi ...

**Keywords**: media independence, multi-paradigm querying, multimedia database management, uniform data modeling

51 Experiments in social data mining: The TopicShop system



Brian Amento, Loren Terveen, Will Hill, Deborah Hix, Robert Schulman March 2003 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 10 Issue

Publisher: ACM Press

Full text available: pdf(377.92 KB) Additional Information: full citation, abstract, references, citings, index terms

Social data mining systems enable people to share opinions and benefit from each other's experience. They do this by mining and redistributing information from computational records of social activity such as Usenet messages, system usage history, citations, or hyperlinks. Some general questions for evaluating such systems are: (1) is the extracted information valuable? and (2) do interfaces based on the information improve user task performance? We report here on *TopicShop*, a syst ...

**Keywords**: Cocitation analysis, collaborative filtering, computer-supported cooperative work, information visualization, social filtering, social network analysis

52 Data clustering: a review

A. K. Jain, M. N. Murty, P. J. Flynn

September 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 3

Publisher: ACM Press

Full text available: pdf(636.24 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

**Keywords**: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

53 <u>DOLORES: a system for logic-based retrieval of multimedia objects</u>

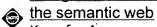
Norbert Fuhr, Norbert Gövert, Thomas Rölleke

August 1998 Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval

Publisher: ACM Press

Full text available: pdf(1.69 MB) Additional Information: full citation, references, citings, index terms

54 Using the semantic web: P-Queries: enabling querying for semantic associations on



Kemafor Anyanwu, Amit Sheth

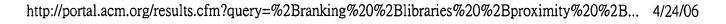
May 2003 Proceedings of the 12th international conference on World Wide Web

Publisher: ACM Press

Full text available: pdf(409.03 KB) Additional Information: full citation, abstract, references, index terms

This paper presents the notion of Semantic Associations as complex relationships between resource entities. These relationships capture both a connectivity of entities as well as similarity of entities based on a specific notion of similarity called r-isomorphism. It formalizes these notions for the RDF data model, by introducing a notion of a Property Sequence as a type. In the context of a graph model such as that for RDF, Semantic Associations amount to specific certain graph signatures. Spec ...

**Keywords**: RDF, complex data relationships, graph traversals, semantic associations, semantic web querying



55 Seeing the whole in parts: text summarization for web browsing on handheld devices



Orkut Buyukkokten, Hector Garcia-Molina, Andreas Paepcke

April 2001 Proceedings of the 10th international conference on World Wide Web

Publisher: ACM Press

Full text available: pdf(1.48 MB)

Additional Information: full citation, references, citings, index terms

Keywords: PDA, WAP, handheld computers, mobile computing, personal digital assistant, summarization, ubiquitous computing, wireless computing

56 External memory algorithms and data structures: dealing with massive data



Jeffrey Scott Vitter

June 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 2

Publisher: ACM Press

Full text available: pdf(828,46 KB)

Additional Information: full citation, abstract, references, citings, index

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the goal is to exploit locality in order to reduce the I/O costs. We consider a varie ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

57 Object-oriented and database concepts for the design of networked information





retrieval systems

Norbert Fuhr

November 1996 Proceedings of the fifth international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(1.04 MB)

Additional Information: full citation, references, citings, index terms

58 Commercial applications of natural language processing Kenneth W. Church, Lisa F. Rau



November 1995 Communications of the ACM, Volume 38 Issue 11

**Publisher: ACM Press** 

Full text available: pdf(314.22 KB)

Additional Information: full citation, abstract, references, citings, index terms

Vast quantities of text are becoming available in electronic form, ranging from published documents (e.g., electronic dictionaries, encyclopedias, libraries and archives for information retrieval services), to private databases (e.g., marketing information, legal records, medical histories), to personal email and faxes. Online information services are reaching mainstream computer users. There were over 15 million Internet users in 1993, and projections are for 30 million in 1997. With media ...

### 59 Semantic caching of Web queries

Boris Chidlovskii, Uwe M. Borghoff



Publisher: Springer-Verlag New York, Inc.

Full text available: Ddf(235.09 KB) Additional Information: full citation, abstract, citings, index terms

In meta-searchers accessing distributed Web-based information repositories, performance is a major issue. Efficient query processing requires an appropriate caching mechanism. Unfortunately, standard page-based as well as tuple-based caching mechanisms designed for conventional databases are not efficient on the Web, where keyword-based querying is often the only way to retrieve data. In this work, we study the problem of semantic caching of Web queries and develop a caching mechanism for conjun ...

**Keywords**: Experiments, Query algorithms, Region containment, Semantic caching, Signature files

Data remapping for design space optimization of embedded memory systems



Rodric M. Rabbah, Krishna V. Palem

May 2003 ACM Transactions on Embedded Computing Systems (TECS), Volume 2 Issue 2

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: 🔁 pdf(885.05 KB)

In this article, we present a novel linear time algorithm for data remapping, that is, (i) lightweight; (ii) fully automated; and (iii) applicable in the context of pointer-centric programming languages with dynamic memory allocation support. All previous work in this area lacks one or more of these features. We proceed to demonstrate a novel application of this algorithm as a key step in optimizing the design of an embedded memory system. Specifically, we show that by virtue of lo ...

**Keywords**: Design space exploration, caches, compiler optimization, data remapping, embedded systems, memory hierarchy, memory subsystem

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Relevance scale ...

61 XML data management and web discovery: Exploiting native XML indexing



techniques for XML retrieval in relational database systems

Felix Weigel, Klaus U. Schulz, Holger Meuss

window

November 2005 Proceedings of the 7th annual ACM international workshop on Web information and data management WIDM '05

**Publisher: ACM Press** 

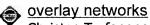
Full text available: pdf(569.93 KB) Additional Information: full citation, abstract, references, index terms

In XML retrieval, two distinct approaches have been established and pursued without much cross-fertilization taking place so far. On the one hand, native XML databases tailored to the semistructured data model have received considerable attention, and a wealth of index structures, join algorithms, tree encodings and guery rewriting techniques for XML have been proposed. On the other hand, the question how to make XML fit the relational data model has been studied in great detail, giving r ...

Keywords: CADG, RCADG, RDBMS, RDBS, Relational CADG, XML indexing, XML retrieval, content-aware dataGuide, query evaluation, relational database, storage scheme

62 Structured data: Publish/subscribe functionality in IR environments using structured





Christos Tryfonopoulos, Stratos Idreos, Manolis Koubarakis

August 2005 Proceedings of the 28th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '05

Publisher: ACM Press

Full text available: pdf(263.67 KB) Additional Information: full citation, abstract, references, index terms

We study the problem of offering publish/subscribe functionality on top of structured overlay networks using data models and languages from IR. We show how to achieve this by extending the distributed hash table Chord and present a detailed experimental evaluation of our proposals.

Keywords: P2P overlay networks, distributed hash tables, publish/subscribe protocols

63 Tools & techniques track: searching and IR: Detecting and supporting known item



queries in online public access catalogs

Min-Yen Kan, Danny C. C. Poo

#### June 2005 Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries Publisher: ACM Press

Full text available: pdf(297.04 KB) Additional Information: full citation, abstract, references, index terms

When users seek to find specific resources in a digital library, they often use the library catalog to locate them. These catalog queries are defined as known item queries. As known item queries search for specific resources, it is important to manage them differently from other search types, such as area searches. We study how to identify known item queries in the context of a large academic institution's online public access catalog (OPAC), in which queries are issued via a simple keyword inte ...

Keywords: known item queries, query language model, query types

### 64 Information retrieval algorithms: a survey

Prabhakar Raghavan

January 1997 Proceedings of the eighth annual ACM-SIAM symposium on Discrete algorithms

Publisher: Society for Industrial and Applied Mathematics

Full text available: 📆 pdf(908.76 KB) Additional Information: full citation, references, citings, index terms

### 65 Hi-cites: dynamically created citations with active highlighting

Michelle Q. Wang Baldonado, Terry Winograd

January 1998 Proceedings of the SIGCHI conference on Human factors in computing systems

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: pdf(990.23 KB) Additional Information: full citation, references, citings, index terms

**Keywords**: browsing, digital libraries, dynamic citations, hi-cites, highlighting, information visualization

## 66 Three-dimensional object recognition

Paul J. Besl, Ramesh C. Jain

March 1985 ACM Computing Surveys (CSUR), Volume 17 Issue 1

Publisher: ACM Press

Full text available: pdf(7.76 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

A general-purpose computer vision system must be capable of recognizing threedimensional (3-D) objects. This paper proposes a precise definition of the 3-D object recognition problem, discusses basic concepts associated with this problem, and reviews the relevant literature. Because range images (or depth maps) are often used as sensor input instead of intensity images, techniques for obtaining, processing, and characterizing range data are also surveyed.

## 67 Infoseek's experiences searching the internet

Steven Kirsch
September 1998 ACM SIGIR Forum, Volume 32 Issue 2

Publisher: ACM Press

Full text available: 📆 pdf(315.41 KB) Additional Information: full citation, citings, index terms

68 Exploration of text collections with hierarchical feature maps

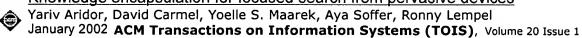
Dieter Merkl

July 1997 ACM SIGIR Forum, Proceedings of the 20th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '97, Volume 31 Issue SI

**Publisher: ACM Press** 

Full text available: pdf(1.65 MB) Additional Information: full citation, references, citings, index terms

69 Knowledge encapsulation for focused search from pervasive devices



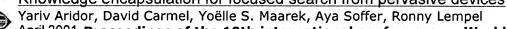
Publisher: ACM Press

Full text available: pdf(2.43 MB) Additional Information: full citation, abstract, references, index terms

Mobile knowledge seekers often need access to information on the Web during a meeting or on the road, while away from their desktop. A common practice today is to use pervasive devices such as Personal Digital Assistants or mobile phones. However, these devices have inherent constraints (e.g., slow communication, form factor) which often make information discovery tasks impractical. In this paper, we present a new focused-search approach specifically oriented for the mode of work and the constrai ...

Keywords: Focused searches, disconnected search, knowledge agents, pervasive devices

70 Knowledge encapsulation for focused search from pervasive devices



April 2001 Proceedings of the 10th international conference on World Wide Web

Publisher: ACM Press

Full text available: pdf(490.70 KB) Additional Information: full citation, references, citings, index terms

Keywords: disconnected search, focused search, knowledge agents, pervasive devices

71 Queue Focus: Search: Enterprise Search: Tough Stuff

Rajat Mukherjee, Jianchang Mao April 2004 **Queue**, Volume 2 Issue 2

**Publisher: ACM Press** 

Full text available: pdf(2.29 MB)

html(37.45 KB)

Additional Information: full citation, citings, index terms

72 XML constraints and the semantic web: Information retrieval on the semantic web

Urvi Shah, Tim Finin, Anupam Joshi

November 2002 Proceedings of the eleventh international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(192.40 KB) Additional Information: full citation, abstract, references, citings

We describe an approach to retrieval of documents that contain of both free text and

semantically enriched markup. In particular, we present the design and implementation prototype of a framework in which both documents and queries can be marked up with statements in the DAML+OIL semantic web language. These statements provide both structured and semi-structured information about the documents and their content. We claim that indexing text and semantic markup together will significantly improve ...

**Keywords**: hybrid information retrieval, query-answering systems, semantic web, text extraction

73 Searching for the needle in the haystack: taxonomies, tags and targets

Michael Pelikan, James Leous, Richard Pearce, Margaret E. Smith, Russell Vaught
October 2004 Proceedings of the 32nd annual ACM SIGUCCS conference on User
services

Publisher: ACM Press

Full text available: pdf(165.65 KB) Additional Information: full citation, abstract, references, index terms

The Penn State Taxonomic Tags group, with representatives from Information Technology, Business Administration, and the Penn State Libraries, was formed to examine whether a taxonomic set of tags, systematically applied across the university's Web pages, could (a) make finding specific pages easier from among the University's greater than 500,000 Web pages, (b) simplify Web content management tasks and (c) prove useful over time as search engines continue to evolve and despite whether open so ...

**Keywords**: content management systems, controlled vocabularies, metadata, taxonomies, web search engines

74 Selected IR-Related Dissertation Abstracts

September 1991 ACM SIGIR Forum, Volume 25 Issue 2

Publisher: ACM Press

Full text available: Topological pdf(2.75 MB)

Additional Information: full citation, abstract

The following are citations selected by title and abstract as being related to Information Retrieval (IR), resulting from a computer search, using BRS Information Technologies, of the Dissertation Abstracts Online database produced by University Microfilms International (UMI). Included are UMI order number, title, author, degree, year, institution; number of pages, one or more Dissertation Abstracts International (DAI) subject descriptors chosen by the author, and abstract. Unless otherwise spec ...

75 Manipulation of music for melody matching

Alexandra L. Uitdenbogerd, Justin Zobel

September 1998 Proceedings of the sixth ACM international conference on Multimedia

Publisher: ACM Press

Full text available: pdf(798.80 KB) Additional Information: full citation, references, citings, index terms

<sup>76</sup> Visualizing digital library search results with categorical and hierarchical axes

Ben Shneiderman, David Feldman, Anne Rose, Xavier Ferré Grau

June 2000 Proceedings of the fifth ACM conference on Digital libraries

Publisher: ACM Press

Full text available: pdf(682,87 KB)

Additional Information: full citation, abstract, references, citings, index terms

Digital library search results are usually shown as a textual list, with 10-20 items per

page. Viewing several thousand search results at once on a two-dimensional display with continuous variables is a promising alternative. Since these displays can overwhelm some users, we created a simplified two-dimensional display that uses categorical and hierarchical axes, called hieraxes. Users appreciate the meaningful and limited number of terms on each hieraxis. At each grid point ...

Keywords: categorical axes, digital libraries, graphical user interfaces, hierarchy, hieraxes, information visualization

77 Document analysis 1: Semantic thumbnails: a novel method for summarizing





document collections

Arijit Sengupta, Mehmet Dalkilic, James Costello

October 2004 Proceedings of the 22nd annual international conference on Design of communication: The engineering of quality documentation

Publisher: ACM Press

Full text available: pdf(197.95 KB) Additional Information: full citation, abstract, references, index terms

The concept of thumbnails is common in image representation. A thumbnail is a highly compressed version of an image that provides a small, yet complete visual representation to the human eye. We propose the adaptation of the concept of thumbnails to the domain of documents, whereby a thumbnail of any document can be generated from its semantic content, providing an adequate amount of information about the documents. However, unlike image thumbnails, document thumbnails are mainly for the cons ...

Keywords: document semantics, document summarization, semantic web, thumbnails

78 A unifying semantic distance model for determining the similarity of attribute values John F. Roddick, Kathleen Hornsby, Denise de Vries



February 2003 Proceedings of the twenty-sixth Australasian computer science conference on Conference in research and practice in information technology - Volume 16 CRIPTS '03

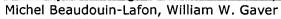
Publisher: Australian Computer Society, Inc.

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(222.01 KB) terms

The relative difference between two data values is of interest in a number of application domains including temporal and spatial applications, schema versioning, data warehousing (particularly data preparation), internet searching, validation and error correction, and data mining. Moreover, consistency across systems in determining such distances and the robustness of such calculations is essential in some domains and useful in many. Despite this, there is no generally adopted approach to determ ...

Keywords: difference measures, semantic distance, similarity

79 ENO: synthesizing structured sound spaces



November 1994 Proceedings of the 7th annual ACM symposium on User interface software and technology

Publisher: ACM Press

Full text available: pdf(1.02 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

ENO is an audio server designed to make it easy for applications in the Unix environment to incorporate non-speech audio cues. At the physical level, ENO manages a shared

resource, namely the audio hardware. At the logical level, it manages a sound space that is shared by various client applications. Instead of dealing with sound in terms of its physical description (i.e., sampled sounds), ENO allows sounds to be presented and controlled in terms of higher-level descriptions of sources, int ...

Keywords: auditory interfaces, client-server architecture, multimodal interfaces, nonspeech audio, sound

80 Computational strategies for object recognition

Paul Suetens, Pascal Fua, Andrew J. Hanson

March 1992 ACM Computing Surveys (CSUR), Volume 24 Issue 1

**Publisher: ACM Press** 

Full text available: pdf(6.37 MB)

Additional Information: full citation, abstract, references, citings, index

terms, review

This article reviews the available methods for automated identification of objects in digital images. The techniques are classified into groups according to the nature of the computational strategy used. Four classes are proposed: (1) the simplest strategies, which work on data appropriate for feature vector classification, (2) methods that match models to symbolic data structures for situations involving reliable data and complex models, (3) approaches that fit models to the photometry and ...

**Keywords:** image understanding, model-based vision, object recognition

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Relevance scale

81 User studies: Modeling task-genre relationships for IR in the workplace

window



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Luanne Freund, Elaine G. Toms, Charles L.A. Clarke
August 2005 Proceedings of the 28th annual international ACM SIGIR confe

August 2005 Proceedings of the 28th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '05

Publisher: ACM Press

Full text available: pdf(425.13 KB) Additional Information: full citation, abstract, references, index terms

Context influences the search process, but to date research has not definitively identified which aspects of context are the most influential for information retrieval, and thus are worthy of integration in today's retrieval systems. In this research, we isolated for examination two aspects of context: task and document genre and examined the relationship between them within a software engineering work domain. In this domain, the nature of the task has an impact on decisions of relevance and use ...

**Keywords**: contextual information retrieval, correspondence analysis, enterprise search, genre, work tasks

82 Adapting a full-text information retrieval system to the computer troubleshooting domain



Peter G. Anick

August 1994 Proceedings of the 17th annual international ACM SIGIR conference on Research and development in information retrieval

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(917.08 KB) Additional Information: full citation, references, citings, index terms

83 Establishing the semantic web 1: SemTag and seeker: bootstrapping the semantic



web via automated semantic annotation

Stephen Dill, Nadav Eiron, David Gibson, Daniel Gruhl, R. Guha, Anant Jhingran, Tapas Kanungo, Sridhar Rajagopalan, Andrew Tomkins, John A. Tomlin, Jason Y. Zien May 2003 **Proceedings of the 12th international conference on World Wide Web** 

Publisher: ACM Press

Full text available: 🔁 pdf(178.36 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

This paper describes Seeker, a platform for large-scale text analytics, and SemTag, an

application written on the platform to perform automated semantic tagging of large corpora. We apply SemTag to a collection of approximately 264 million web pages, and generate approximately 434 million automatically disambiguated semantic tags, published to the web as a label bureau providing metadata regarding the 434 million annotations. To our knowledge, this is the largest scale semantic tagging effort to ...

**Keywords**: automated semantic tagging, data mining, information retrieval, large text datasets, text analytics

84 A survey of peer-to-peer content distribution technologies

Stephanos Androutsellis-Theotokis, Diomidis Spinellis

December 2004 ACM Computing Surveys (CSUR), Volume 36 Issue 4

Publisher: ACM Press

Full text available: pdf(517.77 KB) Additional Information: full citation, abstract, references, index terms

Distributed computer architectures labeled "peer-to-peer" are designed for the sharing of computer resources (content, storage, CPU cycles) by direct exchange, rather than requiring the intermediation or support of a centralized server or authority. Peer-to-peer architectures are characterized by their ability to adapt to failures and accommodate transient populations of nodes while maintaining acceptable connectivity and performance. Content distribution is an important peer-to-peer application ...

Keywords: Content distribution, DHT, DOLR, grid computing, p2p, peer-to-peer

85 A study of retrospective and on-line event detection

Yiming Yang, Tom Pierce, Jaime Carbonell

August 1998 Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval

Publisher: ACM Press

Full text available: pdf(1.05 MB) Additional Information: full citation, references, citings, index terms

86 Research track papers: Mining the space of graph properties

Glen Jeh, Jennifer Widom

August 2004 Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04

Publisher: ACM Press

Full text available: pdf(255.01 KB) Additional Information: full citation, abstract, references, index terms

Existing data mining algorithms on graphs look for nodes satisfying specific properties, such as specific notions of structural similarity or specific measures of link-based importance. While such analyses for predetermined properties can be effective in well-understood domains, sometimes identifying an appropriate property for analysis can be a challenge, and focusing on a single property may neglect other important aspects of the data. In this paper, we develop a foundation for mining the prop ...

**Keywords:** data mining, graph mining

87 From databases to dataspaces: a new abstraction for information management

Michael Franklin, Alon Halevy, David Maier

December 2005 ACM SIGMOD Record, Volume 34 Issue 4

Publisher: ACM Press

Full text available: pdf(171.81 KB) Additional Information: full citation, abstract, references

The development of relational database management systems served to focus the data management community for decades, with spectacular results. In recent years, however, the rapidly-expanding demands of "data everywhere" have led to a field comprised of interesting and productive efforts, but without a central focus or coordinated agenda. The most acute information management challenges today stem from organizations (e.g., enterprises, government agencies, libraries, "smart" homes) relying on a l ...

88 Web mining research: a survey

Raymond Kosala, Hendrik Blockeel

June 2000 ACM SIGKDD Explorations Newsletter, Volume 2 Issue 1

Publisher: ACM Press

Full text available: pdf(1.58 MB) Additional Information: full citation, citings, index terms

Keywords: Web, data mining, information extraction, information retrieval

89 Industry track: Database support for species extraction from the biosystematics

literature: a feasibility demonstration
Ralf Duckstein, Klemens Böhm

November 2004 Proceedings of the thirteenth ACM international conference on Information and knowledge management CIKM '04

Publisher: ACM Press

Full text available: pdf(347.41 KB) Additional Information: full citation, abstract, references, index terms

A part of the biosystematics literature is currently being digitized and manually marked up with XML. Fast search on such documents shall be feasible. But marking up such documents incurs high costs, and biologists would like to know the value of such an activity in advance. Deploying standard XML database technology in a straightforward way is not feasible, because of two characteristics of biosystematics documents. The first one is that descriptions of taxa are related, i.e., a more specifi ...

Keywords: biosystematics

<sup>90</sup> An interface for navigating clustered document sets returned by queries

Robert B. Allen, Pascal Obry, Michael Littman

December 1993 Proceedings of the conference on Organizational computing systems

Publisher: ACM Press

Full text available: pdf(571.98 KB) Additional Information: full citation, references, citings, index terms

**Keywords**: clustering, information retrieval, interfaces

91 A self-organized file cabinet

Dawn Lawrie, Daniela Rus

November 1999 Proceedings of the eighth international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references, index terms

The self-organizing file cabinet is an information retrieval system associated with a user's

physical file cabinet. It enhances a physical file cabinet with electronic information about the papers in it. It can remember, organize, update, and help the user find documents contained in the physical file cabinet. The system consists of a module for extracting electronic information about the papers stored in the file cabinet, a module for representing and storing this information in mu ...

92 The effects of query structure and dictionary setups in dictionary-based cross-



language information retrieval

Ari Pirkola

August 1998 Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval

Publisher: ACM Press

Full text available: pdf(1.28 MB)

Additional Information: full citation, references, citings, index terms

93 Stalking the paratext: speculations on hypertext links as a second order text



Francisco J. Ricardo

May 1998 Proceedings of the ninth ACM conference on Hypertext and hypermedia: links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems

Publisher: ACM Press

Full text available: pdf(1.38 MB)

Additional Information: full citation, references, citings, index terms

94 Papers: coordination and planning: Tactical coordination in no-press diplomacy Stefan J. Johansson, Fredrik Håård



July 2005 Proceedings of the fourth international joint conference on Autonomous agents and multiagent systems AAMAS '05

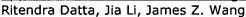
Publisher: ACM Press

Full text available: pdf(673.86 KB) Additional Information: full citation, abstract, references, index terms

While there is a broad theoretic foundation for creating computational players for twoplayer games, such as Chess, the multi-player domain is not as well explored. We make an attempt to apply a multi-agent approach to a multi-player game with huge search spaces and multiple adversaries, namely no-press Diplomacy. We tested our solution against other available bots in an open competition and show that our solution outperforms its competitors in score while being competitive in speed.

**Keywords:** board games, contract net, diplomacy, game bots, multiagent system

95 Special session 2: multimedia information retrieval: challenges and real-world applications: Content-based image retrieval: approaches and trends of the new age



November 2005 Proceedings of the 7th ACM SIGMM international workshop on Multimedia information retrieval MIR '05

Publisher: ACM Press

Full text available: pdf(467.64 KB) Additional Information: full citation, abstract, references, index terms

The last decade has witnessed great interest in research on content-based image retrieval. This has paved the way for a large number of new techniques and systems, and a growing interest in associated fields to support such systems. Likewise, digital imagery has expanded its horizon in many directions, resulting in an explosion in the volume of image data required to be organized. In this paper, we discuss some of the key contributions in the current decade related to image retrieval and automat ...

Keywords: annotation, content-based image retrieval

<sup>96</sup> Mobility and Wireless Access: Personalized pocket directories for mobile devices

Doron Cohen, Michael Herscovici, Yael Petruschka, Yoëlle S. Maarek, Aya Soffer

May 2002 Proceedings of the 11th international conference on World Wide Web

Publisher: ACM Press

Full text available: pdf(529.16 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

In spite of the increase in the availability of mobile devices in the last few years, Web information is not yet as accessible from PDAs or WAP phones as it is from the desktop. In this paper, we propose a solution for supporting one of the most popular information discovery mechanisms, namely Web directory navigation, from mobile devices. Our proposed solution consists of caching enough information on the device itself in order to conduct most of the navigation actions locally (with subsecond r ...

Keywords: hierarchical browsers, mobile devices, mobile search, personalization

97 Integrating contents and structure in text retrieval

Ricardo Baeza-Yates, Gonzalo Navarro

March 1996 ACM SIGMOD Record, Volume 25 Issue 1

Publisher: ACM Press

Full text available: pdf(1.23 MB) Additional Information: full citation, abstract, citings

The purpose of a textual database is to store textual documents. These documents have not only textual contents, but also structure. Many traditional text database systems have focused only on querying by contents or by structure. Recently, a number of models integrating both types of queries have appeared. We argue in favor of that integration, and focus our attention on these recent models, covering a representative sampling of the proposals in the field. We pay special attention to the t ...

98 Frontmatter (TOC, Letters, Open Source Software (OSS) Patent Search Engine,

Calendar of Events, Workshop and Conference Information)
ACM SIGSOFT Software Engineering Notes staff

March 2005 ACM SIGSOFT Software Engineering Notes, Volume 30 Issue 2

Publisher: ACM Press

Full text available: pdf(564.92 KB) Additional Information: full citation

99 EDUCATION FORUM: Web Enhanced Textbooks

Rocky Ross

December 1998 ACM SIGACT News, Volume 29 Issue 4

Publisher: ACM Press

Full text available: pdf(423.32 KB) Additional Information: full citation

100 Poster Session: Improving intranet search-engines using context information from

Christoph Mangold, Holger Schwarz, Bernhard Mitschang
October 2005 Proceedings of the 14th ACM international conference on Information
and knowledge management CIKM '05

Publisher: ACM Press

Full text available: pdf(65.23 KB) Additional Information: full citation, abstract, references, index terms

Information in enterprises comes in documents and data bases. From a semantic viewpoint, both kinds of information are usually tightly connected. In this paper, we propose to enhance common search-engines with contextual information retrieved from databases. We establish system requirements and anecdotally demonstrate how documents and database information can be represented as the nodes of a graph. Then, we give an example how we exploit this graph information for document retrieval.

Keywords: context, intranet search

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Relevance scale

101 Optimizing story link detection is not equivalent to optimizing new event detection Ayman Farahat, Francine Chen, Thorsten Brants

July 2003 Proceedings of the 41st Annual Meeting on Association for Computational Linguistics - Volume 1 ACL '03

Publisher: Association for Computational Linguistics

Full text available: pdf(207.07 KB) Additional Information: full citation, abstract, references

Link detection has been regarded as a core technology for the Topic Detection and Tracking tasks of new event detection. In this paper we formulate story link detection and new event detection as information retrieval task and hypothesize on the impact of precision and recall on both systems. Motivated by these arguments, we introduce a number of new performance enhancing techniques including part of speech tagging, new similarity measures and expanded stop lists. Experimental results validate o ...

### 102 Adaptive block rearrangement

Sedat Akyürek, Kenneth Salem

May 1995 ACM Transactions on Computer Systems (TOCS), Volume 13 Issue 2

Publisher: ACM Press

Full text available: pdf(2.27 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

An adaptive technique for reducing disk seek times is described. The technique copies frequently referenced blocks from their original locations to reserved space near the middle of the disk. Reference frequencies need not be known in advance. Instead, they are estimated by monitoring the stream of arriving requests. Trace-driven simulations show that seek times can be cut substantially by copying only a small number of blocks using this technique. The technique has been implemented by modi ...

**Keywords**: data clustering, data replication, seek optimization

## 103 Linux makes Wi-Fi happen in New York city

Doc Searls

September 2003 Linux Journal, Volume 2003 Issue 113

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(38.40 KB) Additional Information: full citation, abstract

At parks, phone booths and cafes, hackers are making this city a cornucopia of wireless

Net access.

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IEE CNF	IEE Conference Proceeding	Fuzzy Systems, IEEE Transactions on Volume 14, Issue 2, April 2006 Page(s):217 - 221
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		2. DaVaW: a python library for medical image processing applications Regrain, B.; Boix, E.; Odet, C.; Benoit-Cattin, H.; Image Processing, 2005. ICIP 2005. IEEE International Conference on Volume 3, 11-14 Sept. 2005 Page(s):III - 1004-7 Digital Object Identifier 10.1109/ICIP.2005.1530564  AbstractPlus   Full Text: PDF(416 KB) IEEE CNF
		Rights and Permissions  3. MPI-I/O operations to a remote computer using Java Tsujita, Y.; Parallel and Distributed Systems, 2005. Proceedings. 11th International Con Volume 2, 20-22 July 2005 Page(s):694 - 698 Vol. 2 Digital Object Identifier 10.1109/ICPADS.2005.200
		AbstractPlus   Full Text: PDF(392 KB) IEEE CNF Rights and Permissions
		4. Implementation of an MPI-I/0 mechanism using PVFS in remote I/0 to a Tsujita, Y.; High Performance Computing and Grid in Asia Pacific Region, 2004. Procee International Conference on 20-22 July 2004 Page(s):136 - 139 Digital Object Identifier 10.1109/HPCASIA.2004.1324028
		AbstractPlus   Full Text: PDF(411 KB) IEEE CNF Rights and Permissions
		5. Synthesis aspects of the PARADISE design environment

Seventh International Workshop on 7-9 Jan. 2002 Page(s):27 - 34

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